

THE INNORENEW COE
INTERNATIONAL CONFERENCE
2025



2025

16-17 September 2025 | Izola, Slovenia

IRIC 2025 AGENDA

TUESDAY 16
SEPTEMBER 2025



8:00 - 8:30

Registration with coffee

8:30 - 8:35

Welcome

Andreja Kutnar, InnoRenew CoE, UP IAM & UP FAMNIT, University of Primorska, Slovenia - Acting department chair

Keynotes

8:35 - 9:20

Rebecca Williams

“Crusader or communicator: will science remember you?”

9:20 - 10:05

Sumea Klokic

“Bright beams for a greener future: synchrotron techniques in renewable science”

Creativity & Society

Session chair: Dr. Daša Majcen

10:05-10:20

Wood education for sustainable construction – empowering professionals and students to build a more sustainable future through innovative and tailored training in circular wood and timber construction

Ana Slavec - InnoRenew CoE, UP IAM & UP FAMNIT, University of Primorska, Slovenia

10:20-10:35

Bottom-up design of a life-saving technology. The lifeshell desk

Marco Fellin - National Research Council of Italy, Institute of BioEconomy (CNR IBE), Italy

10:35-10:50

Design of responsible tourism – pilot studies in Slovakia

Veronika Kotradyová - Faculty of Architecture and Design, STU in Bratislava, Body conscious design laboratory, Slovakia

10:50-11:05

Life cycle analysis of the production of phenols and suberinic acid from spruce bark and their environmental impact when applied in secondary wood products

Daša Majcen - InnoRenew CoE, UP IAM, University of Primorska, Slovenia

16 - 17 SEPTEMBER 2025 | IZOLA, SLOVENIA



Buildings

Session chair: Dr. Rok Prislan; Session co-chair: Tara Vovk

- 11:05-11:20 **Processing heritage timber for structural reuse in floor systems**
Mohammad Derikvand - InnoRenew CoE, UP IAM & UP FAMNIT, University of Primorska, Slovenia
- 11:20-11:35 **Structural and cultural barriers to timber use in the mediterranean: a multidisciplinary investigation**
Jacopo Sazzini - Università degli Studi di Ferrara, Department of Architecture, Italy
- 11:35-11:50 **Life cycle assessment of the construction process in a mass timber structure**
Mahboobeh Hemmati - University of Arkansas, USA
- 11:50-12:05 **Moisture management in timber structures – new techniques and challenges**
Jan Vcelak - CVUT in Prague, UCEEB, Czech Republic



12:05-13:30 **Lunch (with coffee)**

Health

Session chair: Dr. Michael Burnard; Session co-chair: Špela Vrtovec

- 13:30-13:45 **Improving public health through built environment interventions: a literature review**
Anja Jutraz - National Institute of Public Health, Slovenia
- 13:45-14:00 **From objective measurement to subjective evaluation: assessing buildings for wellbeing**
Michael Burnard - InnoRenew CoE, UP IAM & UP FAMNIT, University of Primorska, Slovenia

Information processing

Session chair: Dr. Miklós Krész; Session co-chair: Richard Acquah

- 14:00-14:15 **Enhancing timber design with RevitWoodLCC: BIM-based service life modelling tool**
Richard Acquah - InnoRenew CoE, UP IAM, University of Primorska, Slovenia
- 14:15-14:30 **Behavioural modelling within the scope of positive energy districts in heritage areas: a conceptual use case in Slovenia**
Miklós Krész - InnoRenew CoE, UP IAM & UP FAMNIT, University of Primorska, Slovenia



Information processing

Session chair: Dr. Miklós Krész; Session co-chair: Richard Acquah

14:30-14:45

Bayesian analysis in wood science: what can we gain?

Michael Burnard - InnoRenew CoE, UP IAM & UP FAMNIT, University of Primorska, Slovenia

14:45-15:00

Preliminary analysis of spectroscopic techniques for determining wood chemical composition

Jakub Sandak - InnoRenew CoE, UP IAM & UP FAMNIT, University of Primorska, Slovenia



15:00-15:30

Coffee break

Workshop

15:30-16:30

“How to tell the story behind your science”

Rebecca Williams

16:30

Closing day 1

18:00

Conference dinner

WEDNESDAY 17
SEPTEMBER 2025



8:00 - 8:30

Registration with coffee

Materials 1

Session chair: Dr. Anna Sandak; Session co-chair: Dr. Anja Černoša

8:30-8:45

A preliminary investigation of miswak (*Salvadora persica*) extractives for novel applications

Amina Selmanović - InnoRenew CoE, UP IAM & UP FAMNIT, University of Primorska, Slovenia

8:45-9:00

Eco-friendly wood insulation phase change solutions

Matthew Schwarzkopf - InnoRenew CoE, UP IAM & UP FAMNIT, University of Primorska, Slovenia

9:00-9:15

Melanin from black yeasts: extraction, characterisation and inter-species comparison

Anja Černoša - InnoRenew CoE, UP IAM, University of Primorska, Slovenia



Materials 1

Session chair: Dr. Anna Sandak; Session co-chair: Dr. Anja Černoša

- 9:15-9:30 **Extremotolerant fungi: phylogenomics and physiology of *Parengyodontium* spp.**
Ana Gubenšek - InnoRenew CoE, UP IAM, University of Primorska, Slovenia
- 9:30-9:45 **Polyphenolic extracts from agroforestry residues as adhesives for sustainable particleboards**
Nuno Ferreira - ARCP CoLAB – Associação Rede Competência em Polímeros, Portugal
- 9:45-10:00 **Adhesion and biofilm formation of *Aureobasidium pullulans* on wood analyzed by multi-modal microscopy**
Ihab Malat - InnoRenew CoE, UP IAM, University of Primorska, Slovenia
- 10:00-10:15 **Optimisation of *Aureobasidium pullulans* biomass production for use in living coating**
Sasikala Perumal - InnoRenew CoE, UP IAM, University of Primorska, Slovenia



10:15-10:45

Coffee break

Materials 2

Session chair: Dr. Anna Sandak; Session co-chair: Dr. Anja Černoša

- 10:45-11:00 **From digital model to living surface: BIM-informed microbiome mapping on wooden buildings**
Viviana Gaytan Nuñez - InnoRenew CoE, UP IAM, University of Primorska, Slovenia
- 11:00-11:15 **Fungal biomineralization of mycelium-based composites via calcium oxalate formation**
Stefanija Sekuloska - InnoRenew CoE, UP IAM & UP FAMNIT, University of Primorska, Slovenia
- 11:15-11:30 **Innovative bioluminescent microbial coating for architectural surfaces**
Wojciech Pajerski - InnoRenew CoE, UP IAM, University of Primorska, Slovenia
- 11:30-11:45 **Considerations on the oak wood veneers colors**
Bartosz Palubicki - Poznan University of Life Sciences, Poland
- 11:45-12:00 **Influence of filler type on properties and fire-retardant efficiency of wood coatings based on water-dispersion paint systems**
Marcin Zbieć - Department of Technology and Entrepreneurship in Wood Industry Institute of Wood Sciences and Furniture, Warsaw University of Life Sciences - SGGW, Poland



12:00-13:30

Lunch (with coffee)



Workshops

13:30-14:30

“MEZeroE project: Open innovation test bed for building envelope products: how can open innovation lead to better building envelopes?”
Francesco Babich, Olaia Aurrekoetxea-Arratibel, Urška Blumauer, Akshit Gupta, Žiga Kraškovic

14:30-15:30

“WoodStock living lab workshop”
Co-development of European Wood Construction Observatory (EWCO)
Andreja Kutnar, Aleksandar Tošić, Rok Prislan



15:30-15:35

Closing conference by Andreja Kutnar

15:35-16:35

InnoRenew building tour (optional)

Contact:

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<https://innorenew.eu/iric2025/>

